

Windows Phone 7

Understanding Windows Phone 7 Platform



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@alinimer



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New Experience and Philosophy

Application Platform Overview

2

3

Windows Phone Market Place

Resources

4

5

Demo: Create Your First WP7 App

Q & A

6

Agenda

New Experience and Philosophy



Smart Design



Integrated Experiences

Your Experience



The Windows Phone Design System Codename "Metro"

Metro : is the name of the new design language created for the Windows Phone 7 interface

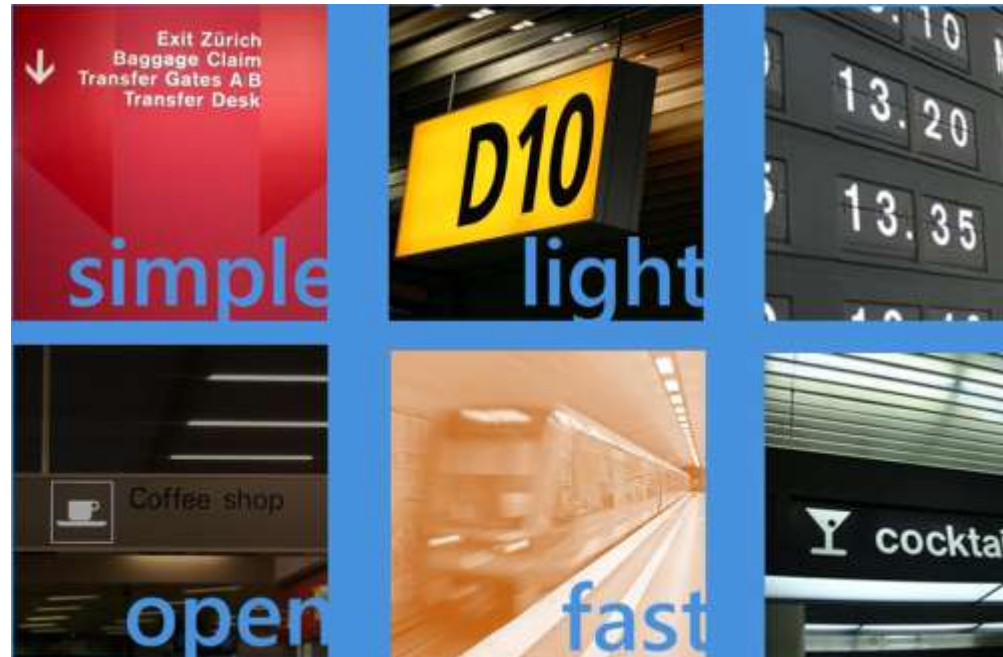
Principles of Design:

Typography

Motion

Content not Chrome

Honesty



Integrated Experiences

Kudu ڪوڊو
www.kudu.com.lk

LUNCH

- Kudu Chicken Lunch 20
- Kudu Beef Lunch 20
- Kudu Fish Lunch 20

BIG VALUE COMBO

- Kudu Chicken or Beef 17
- Kudu Turkey 17
- Kudu Double Cheese Burger 15
- Kudu Chicken Burger 15
- Kudu Chicken Philly 17
- Kudu Beef Philly 17
- Kudu Grilled Chicken 16
- Chicken Supreme 16
- Kudu Club 20

SIDE ORDERS

- Chicken Nuggets 12
- French Fries 12
- Onion Rings 12
- Kudu Salad 12
- Chicken Salad 12
- Hot Dog 12

KIDS MEAL

- Chicken Sandwich 12
- Beef Sandwich 13
- Chicken Burger 13
- Cheese Burger 13
- Chicken Nuggets 12
- Beef Burger 12
- Hot Dog 12

SANDWICH

- Kudu Chicken 12
- Kudu Beef 12
- Kudu Club 15
- Kudu Turkey 12
- Chicken Supreme 11
- Kudu Grilled Chicken 11
- Kudu Chicken Philly 12
- Kudu Beef Philly 12

DESERTS

- Apple Pie 4
- Cheese Cake 7

BURGERS

- Kudu Double Cheese 10
- Kudu Burger (small) 6
- Chicken Burger 10

BREAKFAST

- Kudu Breakfast 15
- Steak & Eggs 15
- Club Breakfast 15
- Pancake 8
- Waffle 7

DRINK

- Tea
- Coffee
- Coco, Fanta
- Water
- Laptop Special Size

panorama

title 1

- all
- menu item one
- menu item two
- menu item three
- menu item four
- more

title 2

- TITLE 1
- TITLE 2
- TITLE 3
- TITLE 4

title 3

- ITEM ONE GOES HERE
- ITEM TWO GOES HERE
- ITEM THREE GOES HERE
- ITEM FOUR GOES HERE

title 4

- One
- Two
- Three
- Four

Integrated Experiences

PEOPLE →

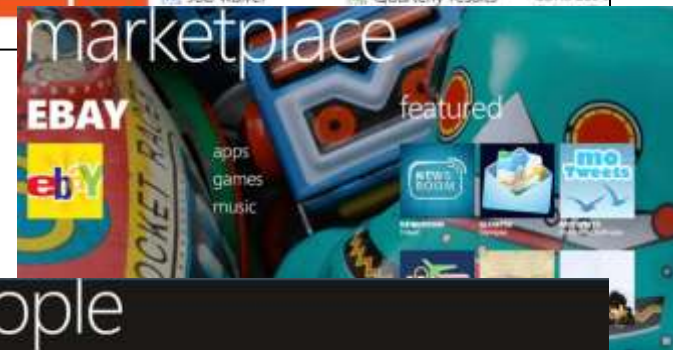
OFFICE →

PICTURES

MUSIC+VIDEO

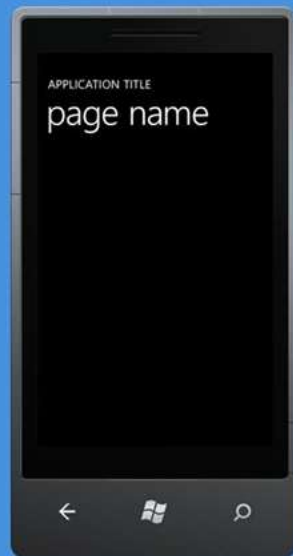
MARKETPLACE

GAMES →



Pages Design Type

portrait landscape panorama pivot



Pages Design Type

portrait landscape panorama pivot



Pages Design Type

portrait landscape panorama pivot

panorama

title 1

all
menu item one
menu item two
menu item three
menu item four
more

title 2



title 3

ITEM ONE GOES HERE
SUBTITLE ONE

ITEM TWO
SUBTITLE TWO

ITEM THREE
SUBTITLE THREE

ITEM FOUR
SUBTITLE FOUR

title 4

One
Two
Three
Four



Pages Design Type

portrait landscape panorama pivot



Hardware



Consistent set of hardware capabilities defined by Microsoft

- One resolution at launch
- Consistent cap-touch input
- Consistent processor / GPU
- Same available RAM
- Optional keyboard

CPU
1 GHz

GPU
DirectX 9

Memory
256 MB RAM
8 GB Flash

Camera
5MP

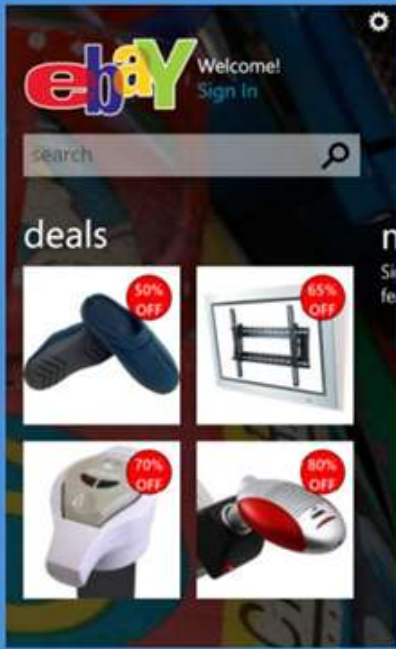
Sensors
A-GPS
Accelerometer
Compass
Light
Proximity

800

480

3.7 - 4.3

Screen Components



device

application page

system tray

keyboard

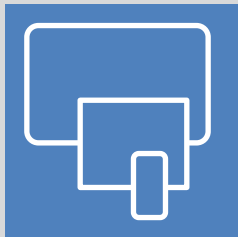
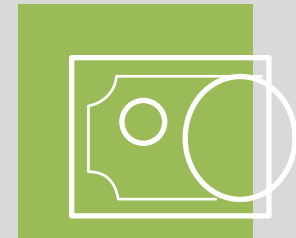
application bar

Application Platform



Help end users personalize their phones

Help developers be profitable



Enable cloud powered experiences

Elements of the Application Platform

Runtime – On “Screen”

Code you write on
the client

SCREEN

Tools & Support

Tools you use to
design & develop

CLOUD

Cloud Services

Code you write on
the server

Developer Portal Services

Tools you use to
ship & sell

Elements of the Application Platform

Runtime – On “Screen”

 Microsoft Silverlight			
Sensors	Media	Data	Location
Phone	Xbox LIVE		Notifications
.NET Framework managed code sandbox			
 Windows Phone	 XBOX	 Windows 7	


SCREEN

Tools

 Microsoft Visual Studio	Microsoft Expression Blend
Phone Emulator	 xna Game Studio
Samples	Documentation
Guides	Community
Packaging and Verification Tools	

CLOUD

Cloud Services

Notifications	App Deployment	
Location	Identity	Feeds
XBOX LIVE	Social	Maps
 Windows Azure		

Portal Services

Registration	Marketplace
Validation	MO and CC Billing
Certification	Business Intelligence
Publishing	Update Management

Cloud Services

SCREEN

CLOUD

Cloud Services

Notifications

App Deployment

Location

Identity

Feeds

XBOX LIVE

Social

Maps

 Windows Azure

Code you write on
the server

Cloud Services

Windows Phone



Windows
Phone
Application

Frameworks

Cloud integration
client services

Your Web Service

Custom Web Service

Existing Web Services

facebook

Microsoft Services

Windows Live™ bing™ XBOX LIVE

Windows Phone
7 Series

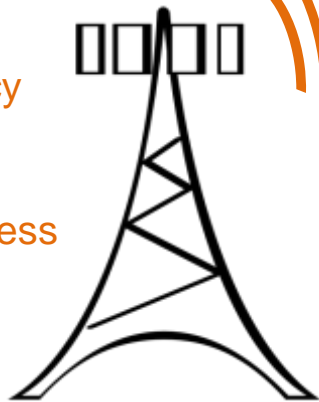
Location Service

Windows Phone
7 Series

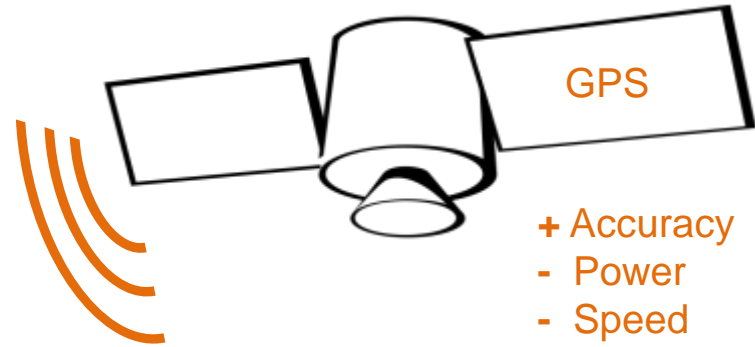
Notification Service

Location Service

- Accuracy
- + Power
- + Speed
- Wilderness



Cell towers



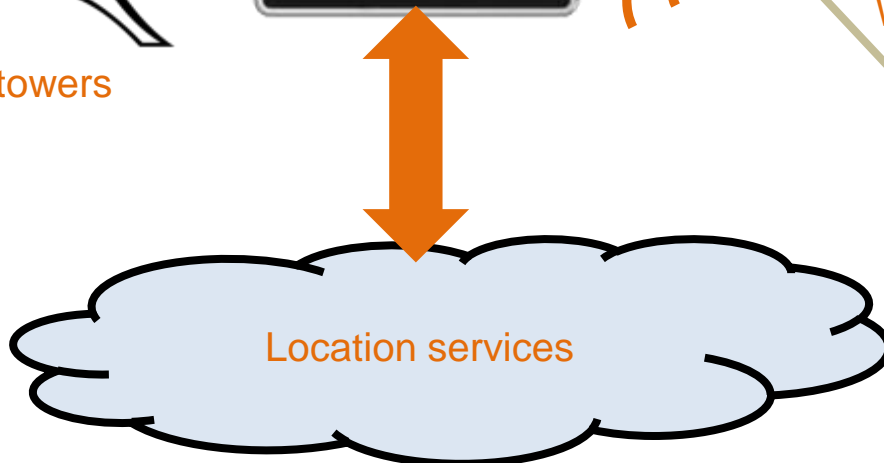
GPS

- + Accuracy
- Power
- Speed
- Indoors



WiFi

- Accuracy
- +/- Power
- +/- Speed
- +/- Urban areas



Location services

Client Runtime & Frameworks

Runtime – On “Screen”



Sensors

Media

Data

Location

Phone

Xbox LIVE

Notifications

.NET Framework managed code sandbox



SCREEN

CLOUD

Code you write on the client

Two Flavors of Applications



Microsoft®
Silverlight™

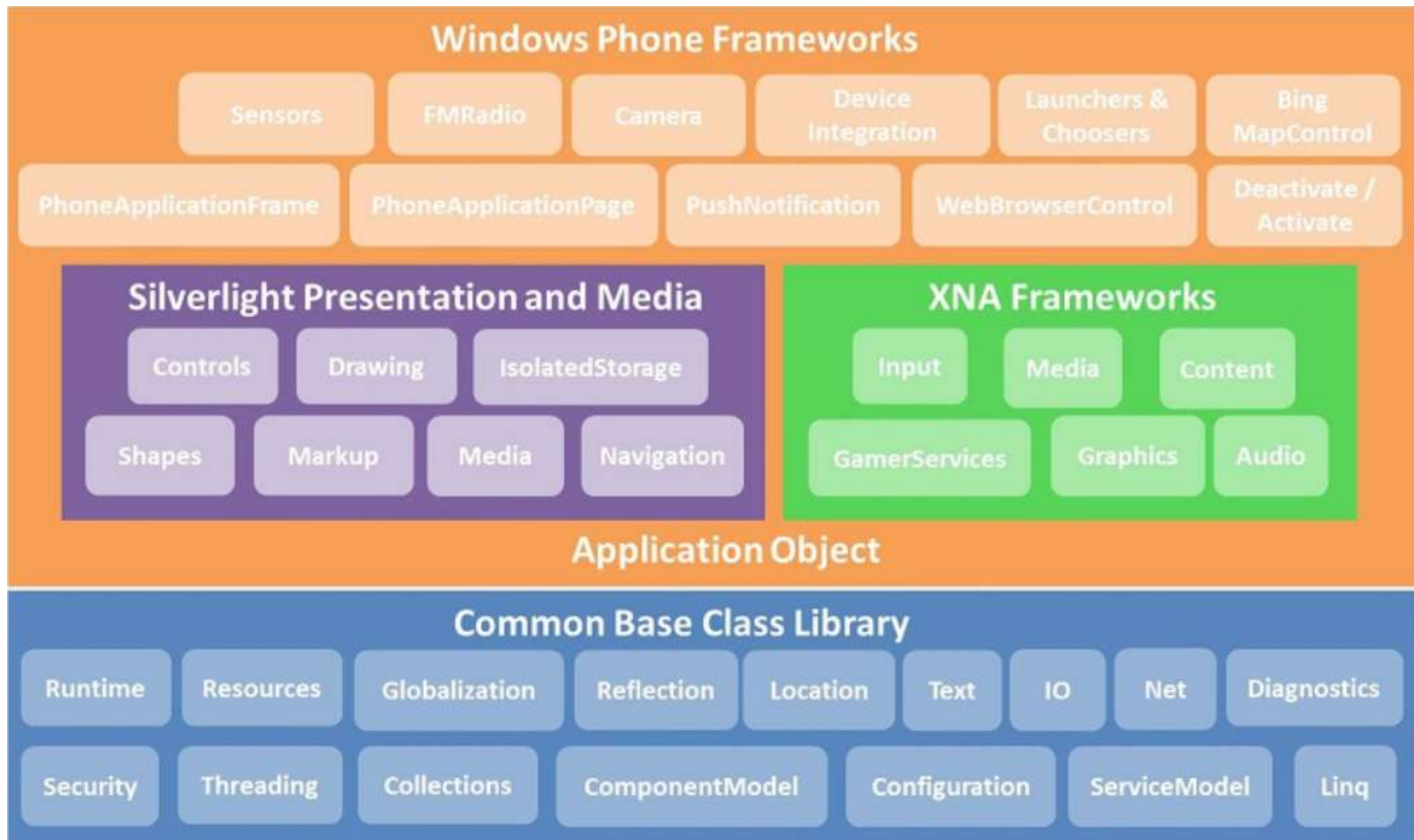
- Modern application UI framework
- Rapid creation of visually stunning apps
- Metro-themed UI controls



- High performance game framework
- Rapid creation of multi-screen 2D and 3D games
- Rich content pipeline



Runtimes Components



Choosing the Right Technology



Microsoft®
Silverlight™

xna



Graphics

UI based on control interaction

Rich vector graphics through XAML

Media

Rich video support

Tooling

Microsoft Blend & VS2010 Designer

Choosing the Right Technology



Microsoft®
Silverlight™

xna



Graphics

- 3D Graphics
- 2D Sprites

Simulation/Drawing

- Traditional
Update/Draw/Present
frame loop

Tooling

- XNA Framework Content
Pipeline

Common Capabilities

Input

- Touch
- Hardware buttons

Media

- Digital media capture & playback
- Media library access

Data

- Isolated Storage
- LINQ (Objects and XML)

.NET

- Superset of Silverlight 4.0
- Windows Communication Foundation: SOAP and REST services

Phone Access

- Sensors
- Launchers & Choosers
- Camera

Integrated With Cloud Services

- Notifications
- Location
- Xbox LIVE

Application Model Life Cycle

Application

Uniquely identifiable, licensable and serviceable software product packaged as a XAP



.xap

app icon
start token
meta-data



Application Deployment

Validation, Certification, and Signing

Microsoft
Visual Studio

Microsoft
Expression Blend

xna | Game Studio



Windows
Phone
Marketplace

Application license

Crypto-verifiable object issued to grant rights to an application



Windows
Phone
Marketplace





Windows Phone Developer Tools

Tools you use to Design &
Develop

SCREEN

CLOUD

Tools	
 Microsoft Visual Studio	Microsoft Expression Blend
Phone Emulator	 XNA Game Studio
Samples	Documentation
Guides	Community
Packaging and Verification Tools	

Getting Windows Phone Developer Tools

Windows Phone SDK 7.1

- Microsoft Visual Studio 2010 Express for Windows Phone
- Windows Phone Emulator
- Windows Phone SDK 7.1 Assemblies
- Silverlight 4 SDK and DRT
- Windows Phone SDK 7.1 Extensions for XNA Game Studio 4.0
- Microsoft Expression Blend SDK for Windows Phone 7
- Microsoft Expression Blend SDK for Windows Phone OS 7.1
- WCF Data Services Client for Window Phone
- Microsoft Advertising SDK for Windows Phone

Software Requirements

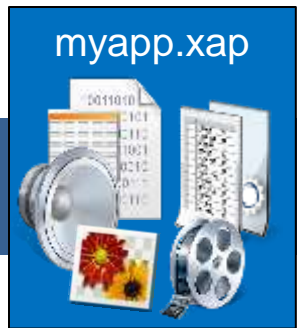
- Windows Vista (x86 and x64) with Service Pack 2 – all editions except Starter Edition
- Windows 7 (x86 and x64) – all editions except Starter Edition

Hardware Requirements

- Installation requires 4 GB of free disk space on the system drive
- 3 GB RAM
- Windows Phone Emulator requires a DirectX 10 capable graphics card with a WDDM 1.1 driver
- Windows Phone SDK 7.1 is compatible with the final version of Visual Studio 2010 SP1

http://create.msdn.com/en-us/home/getting_started

Application Testing



Windows
Phone
device



Packaging &
Verification Tools



Windows
Phone
Emulator

Developer Portal Services

SCREEN

CLOUD

Tools you use to
ship & sell

Portal Services

Registration

Marketplace

Validation

MO and CC Billing

Certification

Business Intelligence

Publishing

Update Management

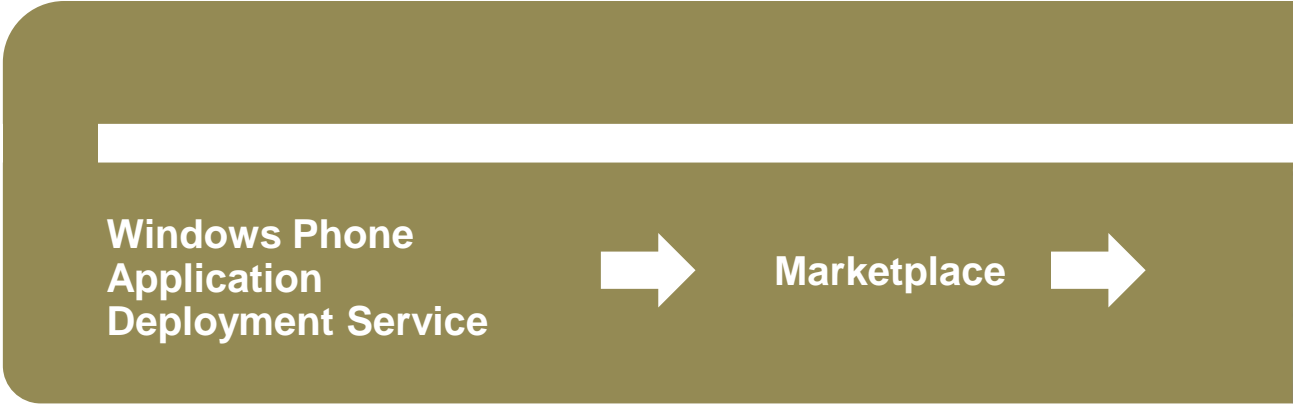
Developer Portal

- ➔ Learn,
- ➔ Build,
- ➔ Publish,
- ➔ Earn.

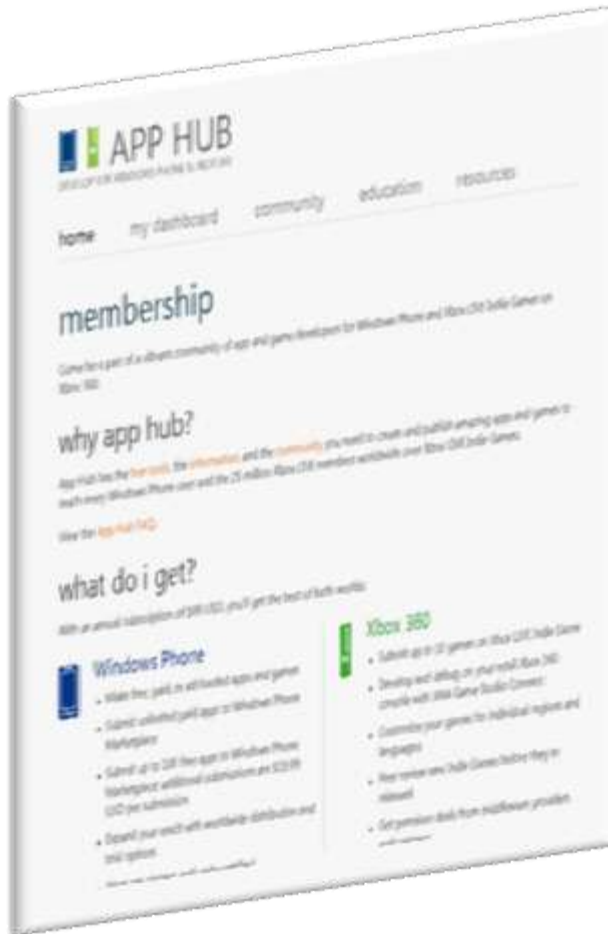


<http://create.msdn.com>

Deployment Process



Windows Phone Market Place



- **Free Tools!**
 - **\$99 / year**
 - **No limit for paid apps**
 - **Free apps Limit**
- submission**
- **App Hub: 100 (+\$19.99)**
 - **Yalla Apps: 5 (+1 Credit)**
- **Unlock Device**



Global

<http://create.msdn.com/en-us/home/membership>

Middle East, Africa or Latin America Region

<http://www.yallaapps.com/>

Resources

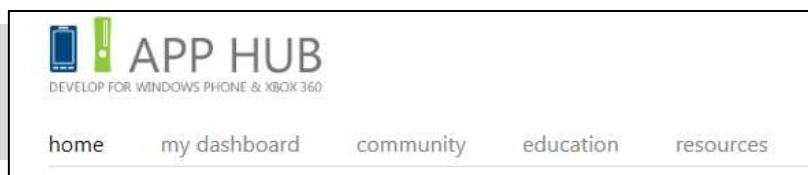
Get Started with Windows Phone Development

<http://msdn.microsoft.com/en-us/ff380145>



App Hub

<http://create.msdn.com>



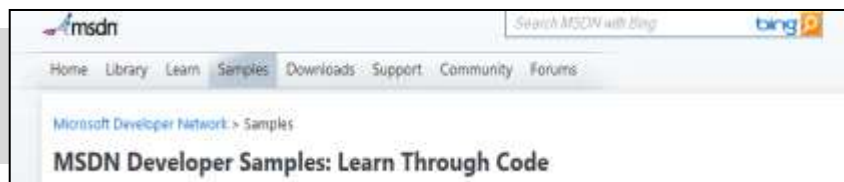
Microsoft Expression Community

<http://expression.microsoft.com>



MSDN Code Gallery

<http://code.msdn.microsoft.com>



Channel 9

<http://channel9.msdn.com>

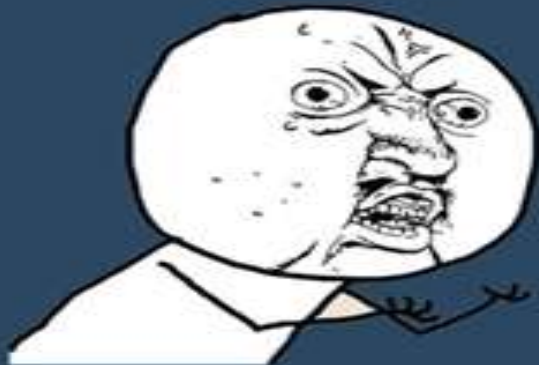


Create Your First WP7 Application 😊



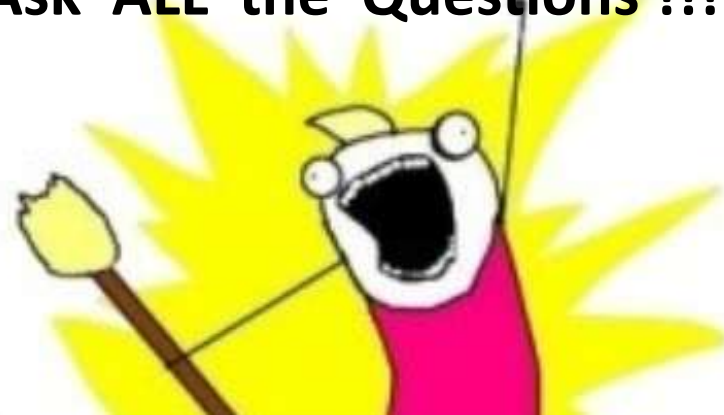
Q & A

Audience,



Y U NO Ask All the Questions ?

Ask ALL the Questions !!!





Windows Phone 7

Understanding Windows Phone 7 Platform

Thanks All 😊

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